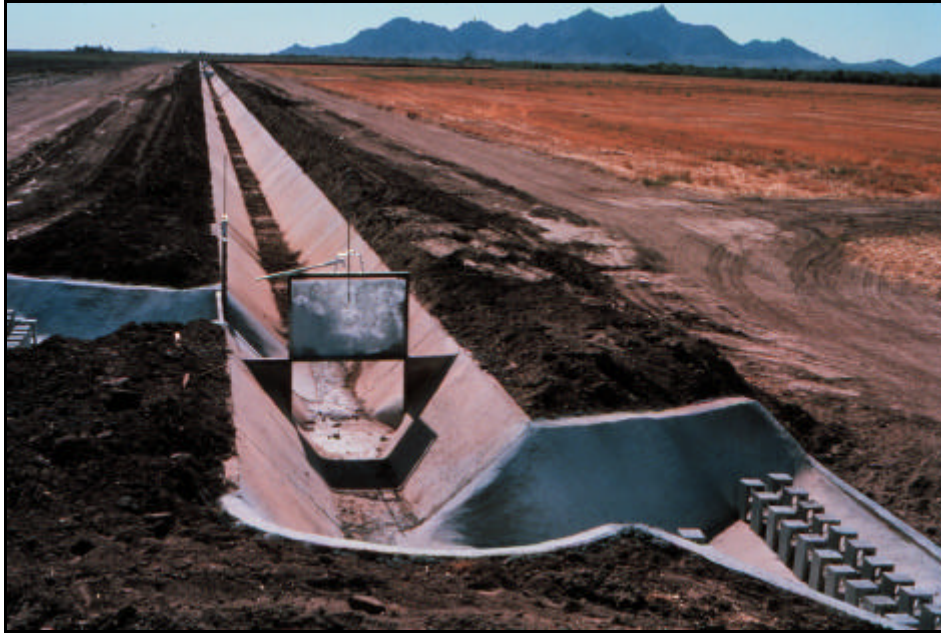


# Irrigation Water Conveyance, Ditch and Canal Lining, Plain Concrete

## PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service - practice code 428A



### DEFINITION

Concrete Ditch and Canal Lining is installing a fixed lining of concrete in an existing or newly constructed irrigation field ditch, canal or lateral.

### PRACTICE INFORMATION

Lined ditches and canals help improve efficiency and conservation of our irrigation water supplies. The purpose of the practice is to prevent waterlogging, reduce erosion, and reduce water loss from seepage.

This practice applies to concrete linings made of nonreinforced concrete that is cast in place in a preformed ditch or canal. This practice is restricted to installations in ditches and canals that have a bottom width

of 6 foot or less, a design capacity not greater than 100 cubic feet per second and a maximum velocity of 15 feet per second.

Care must be taken to assure nonreinforced concrete lined ditches and canals are protected from side drainage flooding. Other considerations include risks from frost heaving, high shrink/swell soil, and in some cases high salt concentrations that cause rapid deterioration of concrete.

Additional information including design criteria and specifications are in the local NRCS Field Office Technical Guide.